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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/778,013	02/06/2001	Terry B. Strom	01948-061001	6231
7:	590 03/30/2006		EXAMINER	
LEE CREWS, Ph.D FISH AND RICHARDSON P.C.			TUNG, JOYCE	
225 Franklin Street			ART UNIT	PAPER NUMBER
Boston, MA 02110-2804			1637	
			DATE MAILED: 03/30/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/778,013	STROM ET AL.			
Office Action Summary	Examiner	Art Unit			
	Joyce Tung	1637			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNICATION R 1.136(a). In no event, however, may a reply be time riod will apply and will expire SIX (6) MONTHS from atute, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 19 This action is FINAL . 2b)⊠ T Since this application is in condition for allocation accordance with the practice under	his action is non-final. wance except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-11 and 26-29 is/are pending in the day of the above claim(s) is/are without 5) Claim(s) is/are allowed. 6) Claim(s) 1-11 and 26-29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and application Papers.	drawn from consideration.				
Application Papers					
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the constant of the	accepted or b) objected to by the the drawing(s) be held in abeyance. Serection is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ Paper No(s)/Mail Date		Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

DETAILED ACTION

The applicant's response filed 12/19/05 to the Office action has been entered. Claims 1-11 and 26-29 are pending.

1. Applicant's arguments with respect to claims 1-7 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1-11 and 26-29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

These claims are drawn to subject matter encompassing the use of a genus of the proapoptotic cluster, the cytoprotective cluster, the IL-7/17 cluster, the IL-8 cluster, the IL-10 cluster, the IL-15 cluster, the T cell cluster, the pro-apoptotic gene cluster and cytoprotective gene.

The proper inquiry in the instant situation is: is there a representative number of species implicitly or explicitly disclosed, such that one of ordinary skill in the art would understand applicant to be in possession of the claimed genus?

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The only species provided by Applicants useful in carrying out the claimed methods is FasL, granzyme B, perforin for the pro-apoptotic cluster, A20 and HO1 for the cytoprotective gene cluster, IL-7/17 for the IL-7/17 gene cluster, IL-8 for the IL-8 gene cluster, IL-10 for the IL-10 cluster, IL-15 for the IL-15 gene cluster, CTLA-4 and RANTES for the T cell gene cluster. These species are the one or two members within the cluster. There is no written description regarding these gene clusters. Moreover, the specification discloses that member of these genes are not necessarily functionally related to the exemplified genes (See pg. 15, lines 10-32 and pg. 16, lines 1-8 of the specification). Therefore, the specification does not provide the support for these gene clusters.

Thus, at the time of the invention applicants were clearly not in possession of the genus recited in the claims.

<u>Vas-Cath Inc. v. Mahurkar</u>, 19 USPQ2d 1111, makes clear that "applicant must convey with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in possession *of the invention*. The invention is, for purposes of the 'written description' inquiry, whatever is now claimed." (See page 1117.) The specification does not "clearly allow persons of ordinary skill in the art to recognize that [he or she] invented what is claimed." (See <u>Vas-Cath</u> at page 1116.)

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-11 and 26-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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a. Claims 1-11 and 26-29 are vague and indefinite because it is unclear what is

encompassed by these gene clusters: "the pro-apoptotic cluster", "the cytoprotective

cluster", "the IL-7/17 cluster", "the IL-8 cluster", "the IL-10 cluster", "the IL-15 cluster"

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and "the T cell cluster" based upon the description of the specification. Clarification is

required.

Summary

6. No claims are allowable.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Joyce Tung whose telephone number is (571) 272-0790. The

examiner can normally be reached on Monday - Friday, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gary Benzion can be reached on 571 272-0782. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joyce Tung **7.7** March 15, 2006

RENNETH R. HORLICK, PH.D
PRIMARY EXAMINER

3/20/06